

Figure 1 Torque vs. Time Chart for Reactive Extrusion of PHBV with HEMA

TQ: 0-20 Nm

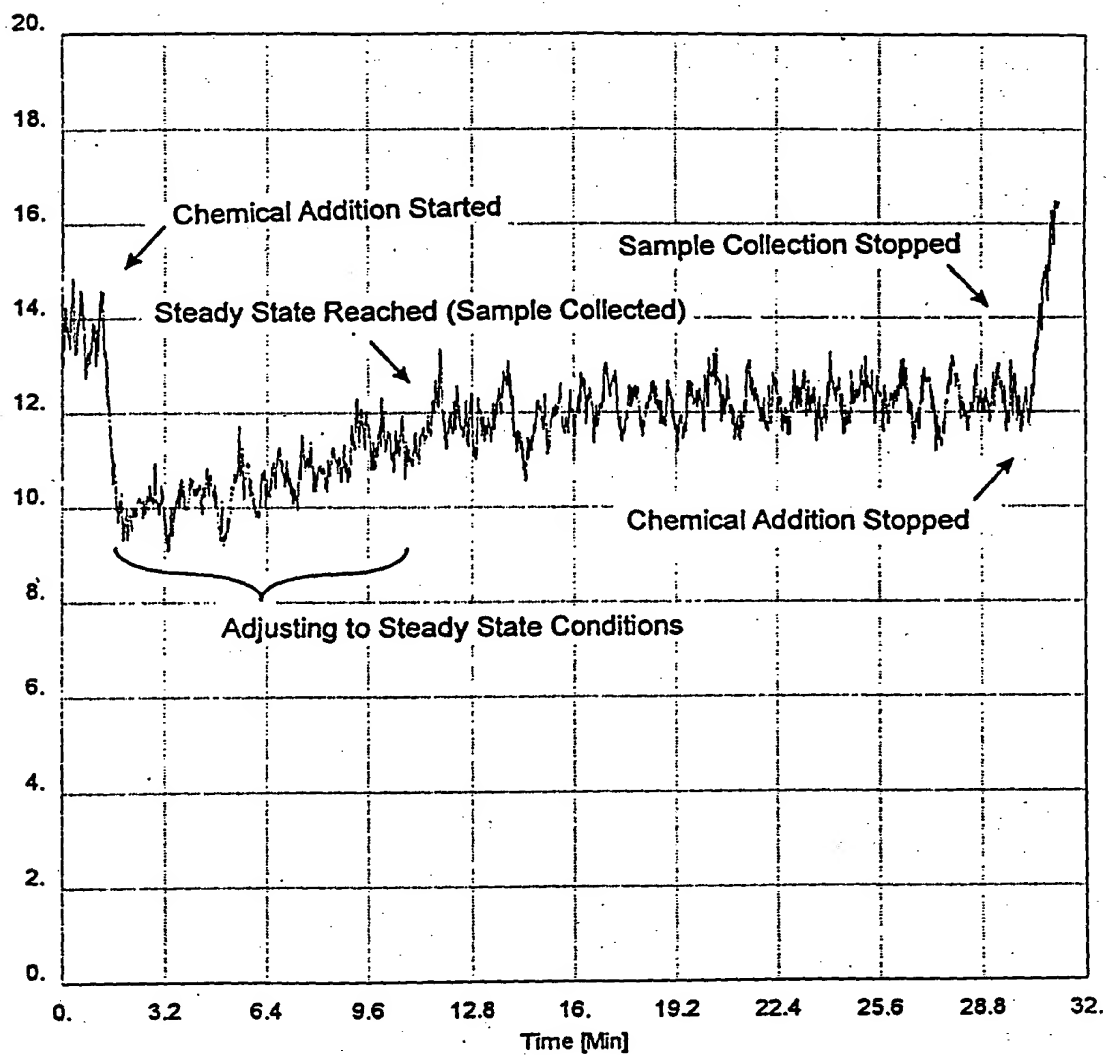
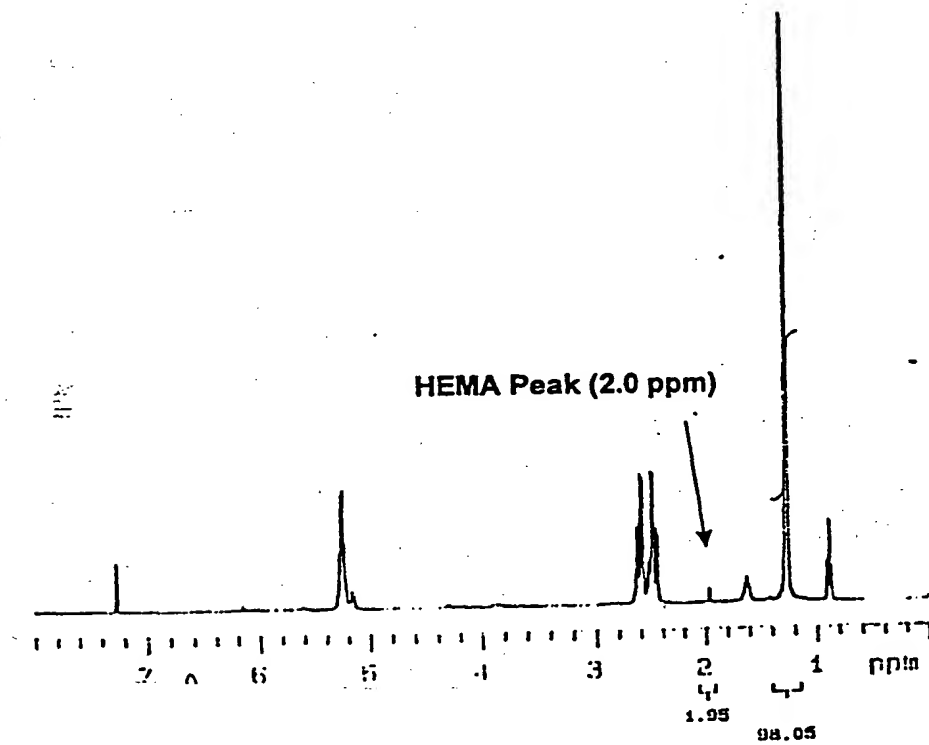
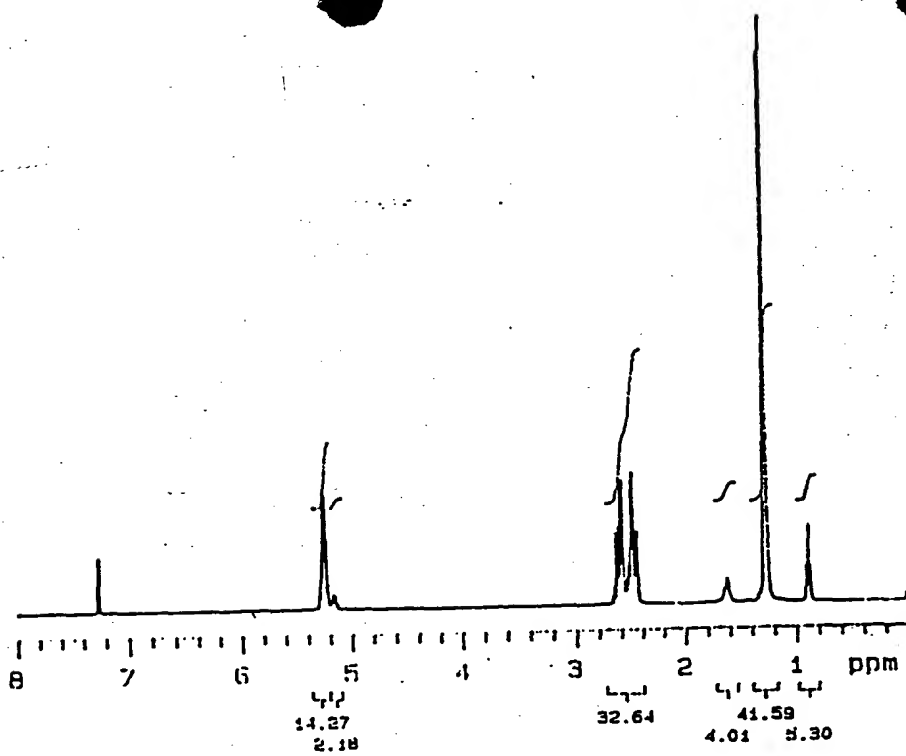


Figure 2. Proton NMR Spectra for PHBV and HEMA Grafted PHBV



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Figure 3 Melt Rheology at 180°C for PHBV and HEMA Grafted
PHBV

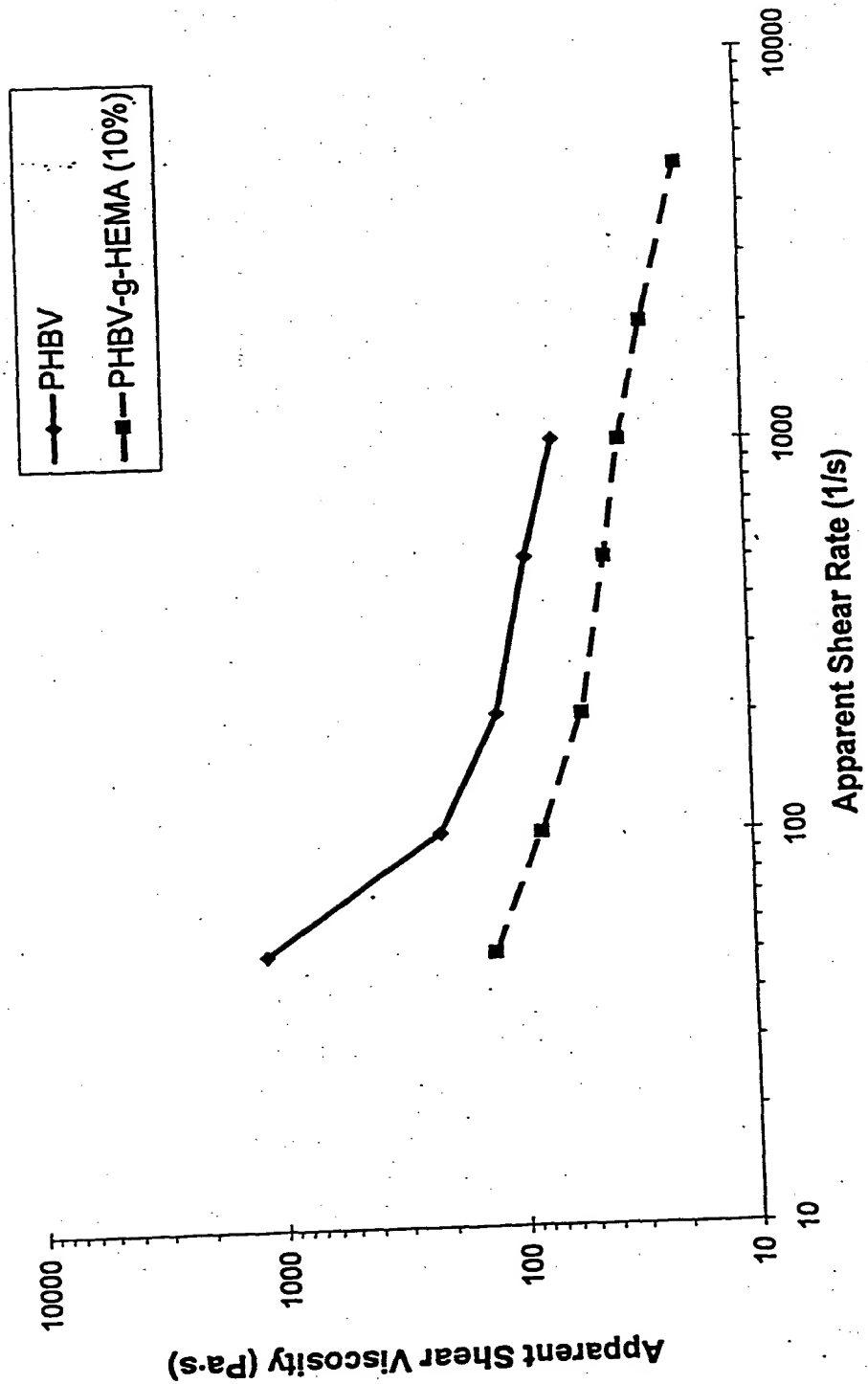
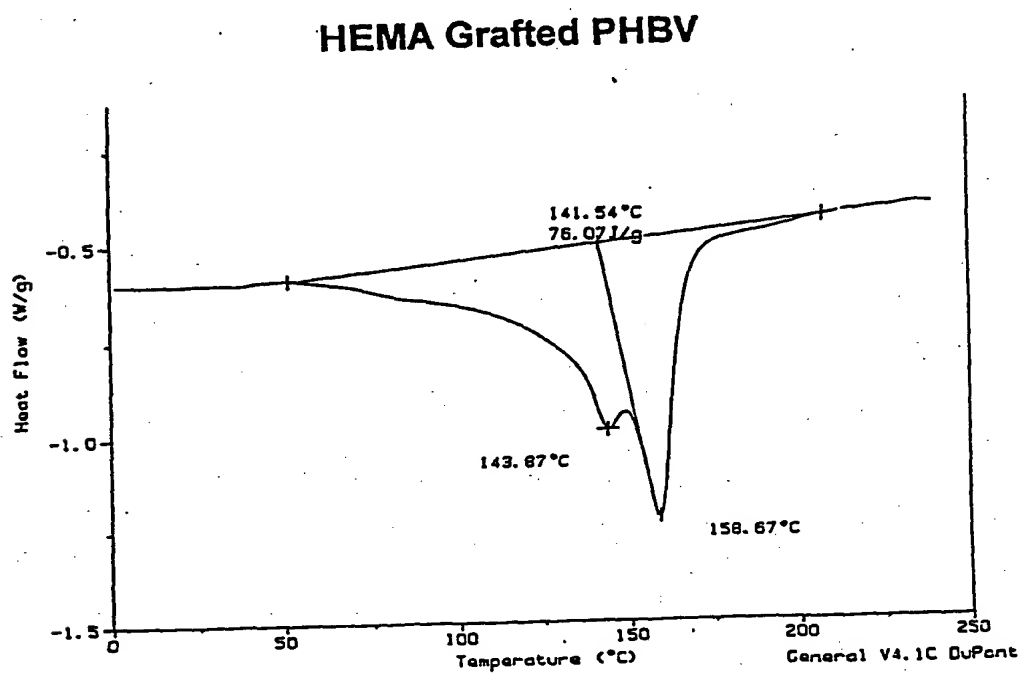
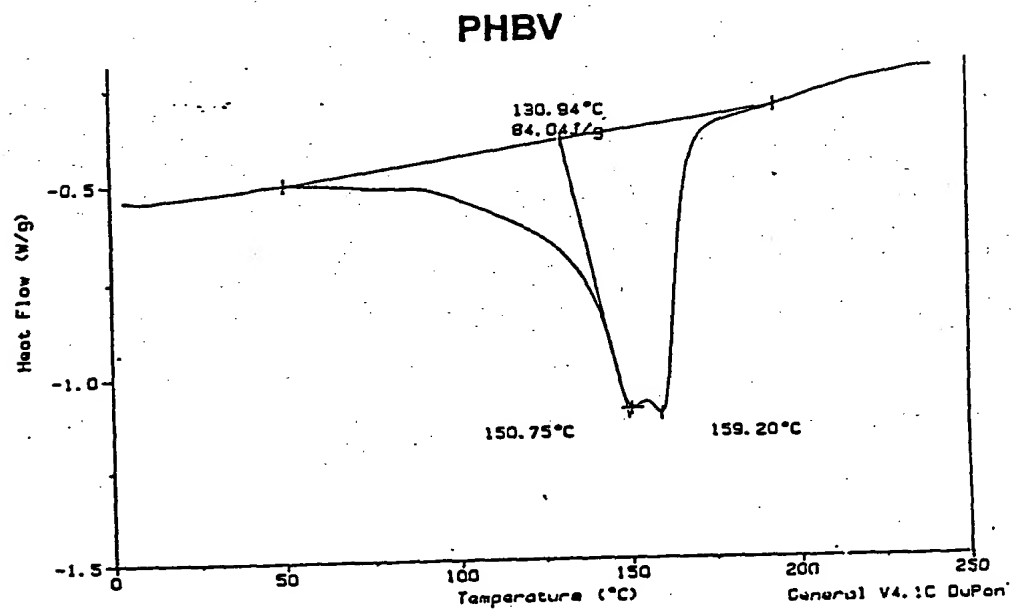


Figure 4 DSC Thermogram for PHBV and HEMA Grafted PHBV

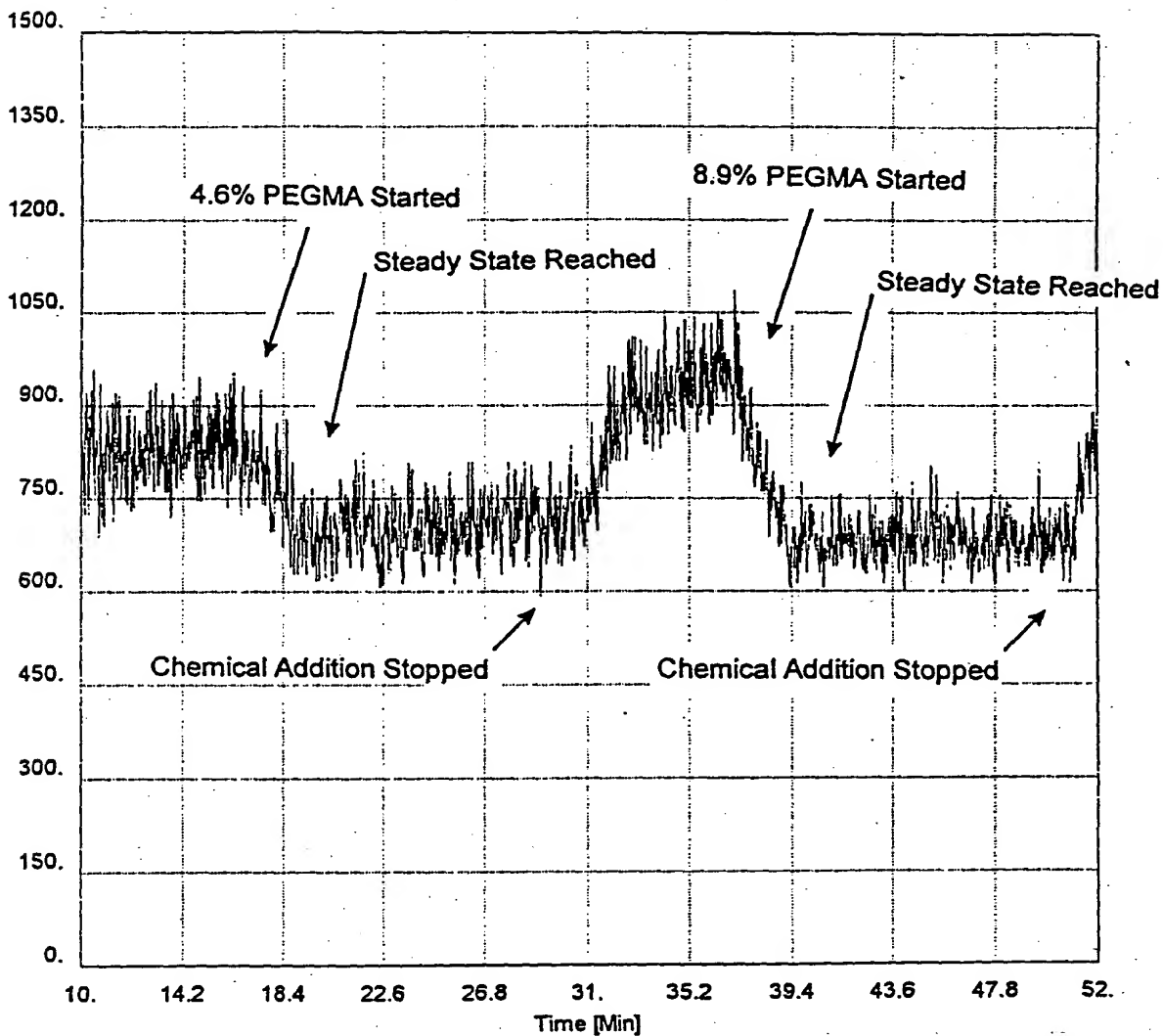


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Figure Torque vs. Time Chart for Reactive Extrusion of
PBS 1040 with PEGMA on the Haake Extruder

TQ: 0-1500 m-g



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Figure 6 Proton NMR Spectra for PBS and PEGMA Grafted PBS 1040

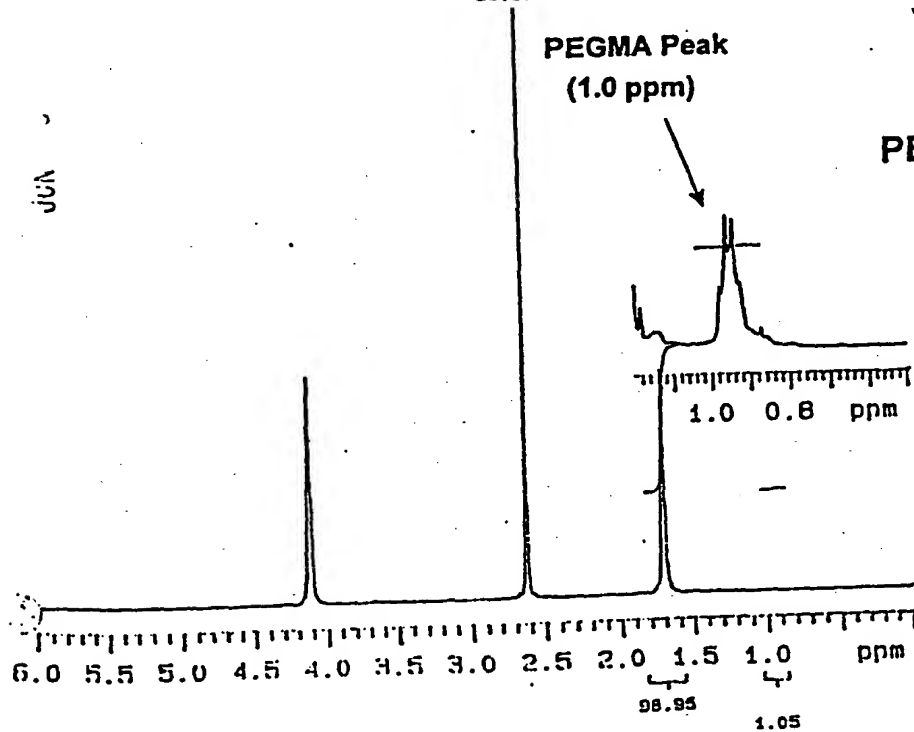
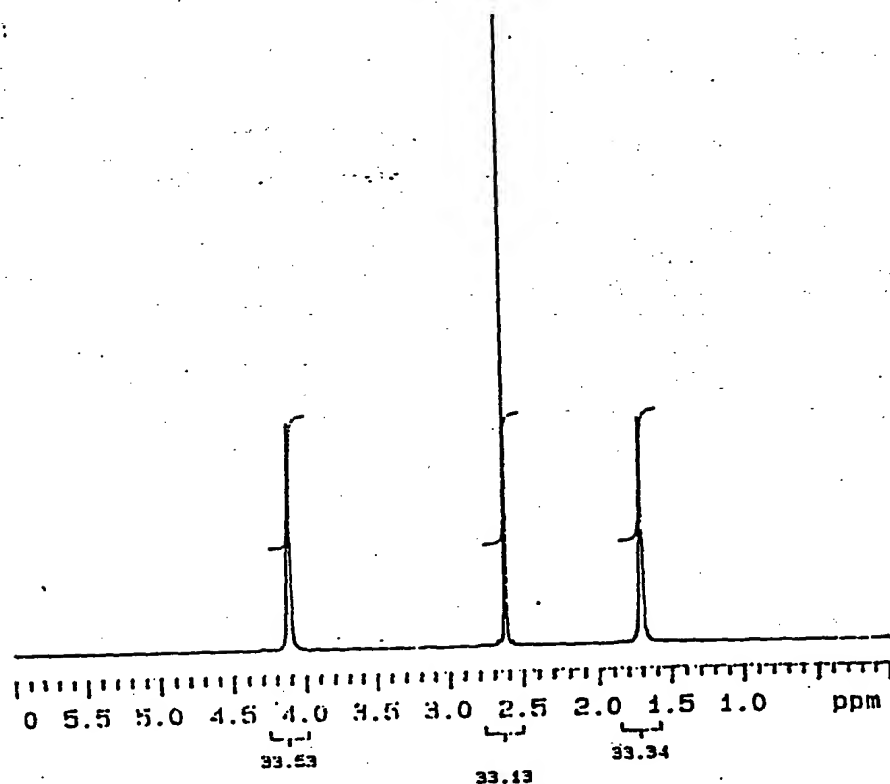
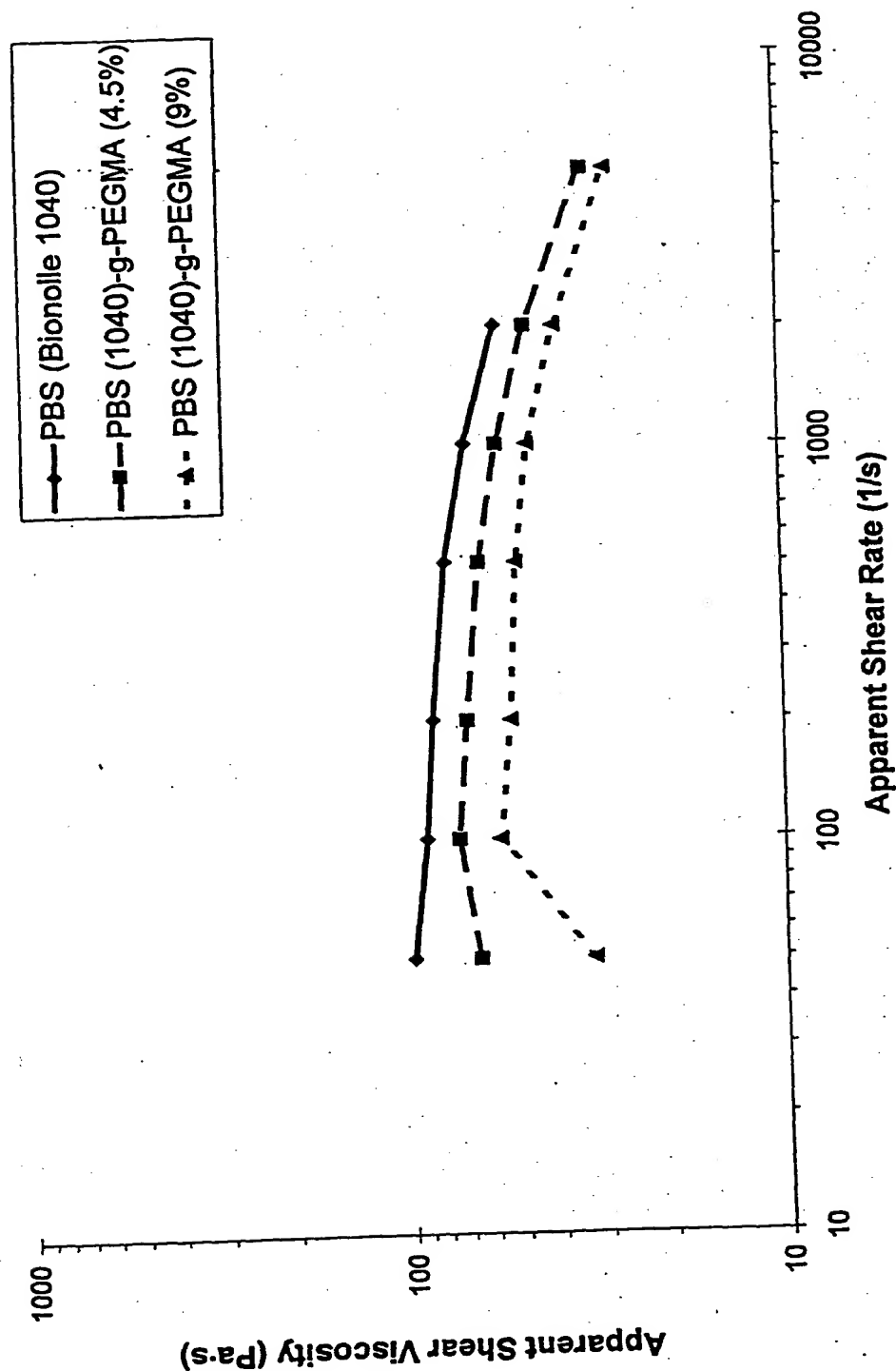


Figure 7 Melt Rheology at 180°C for PBS and PEGMA Grafted PBS (Bionolle® 1040)



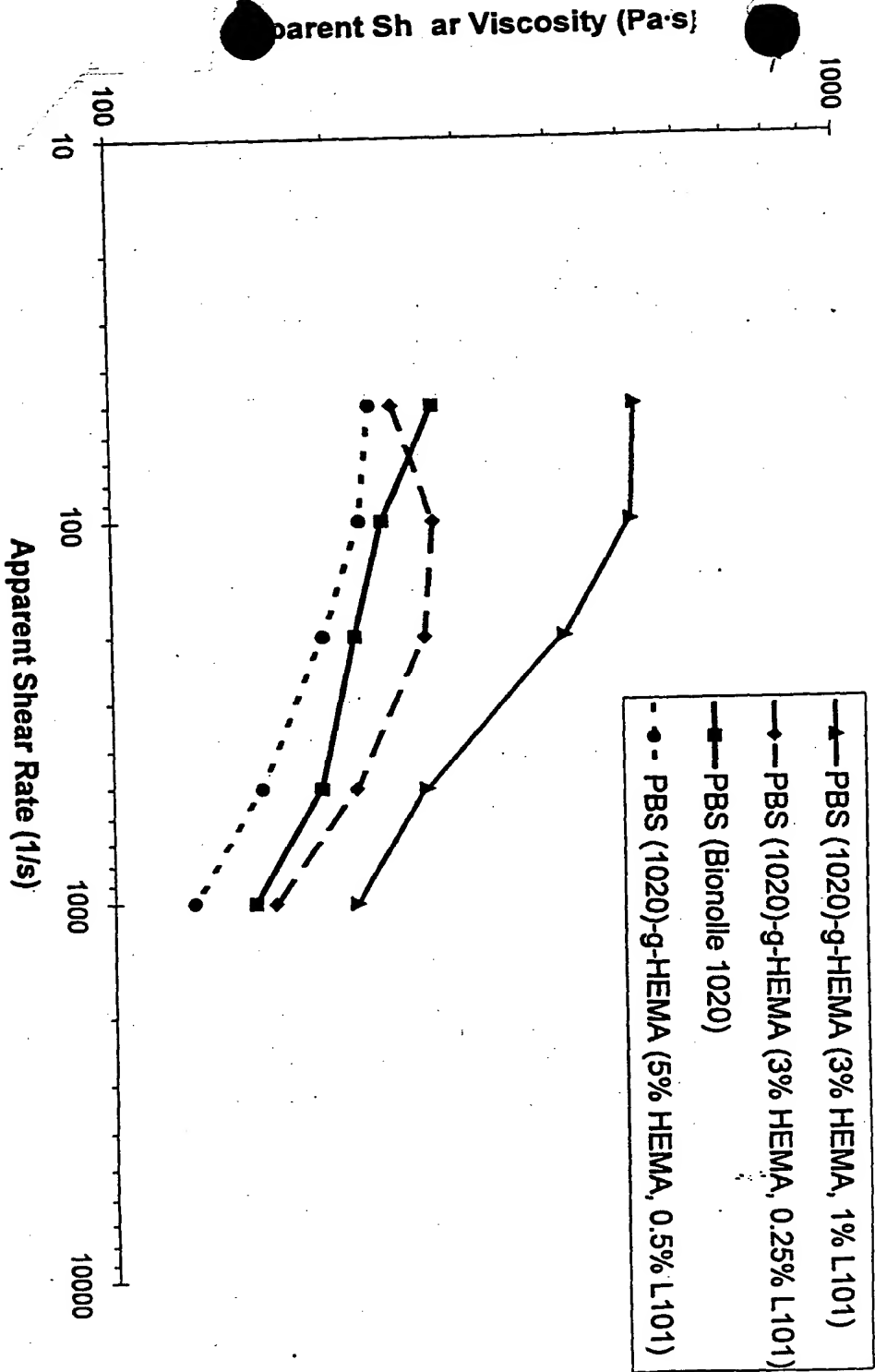
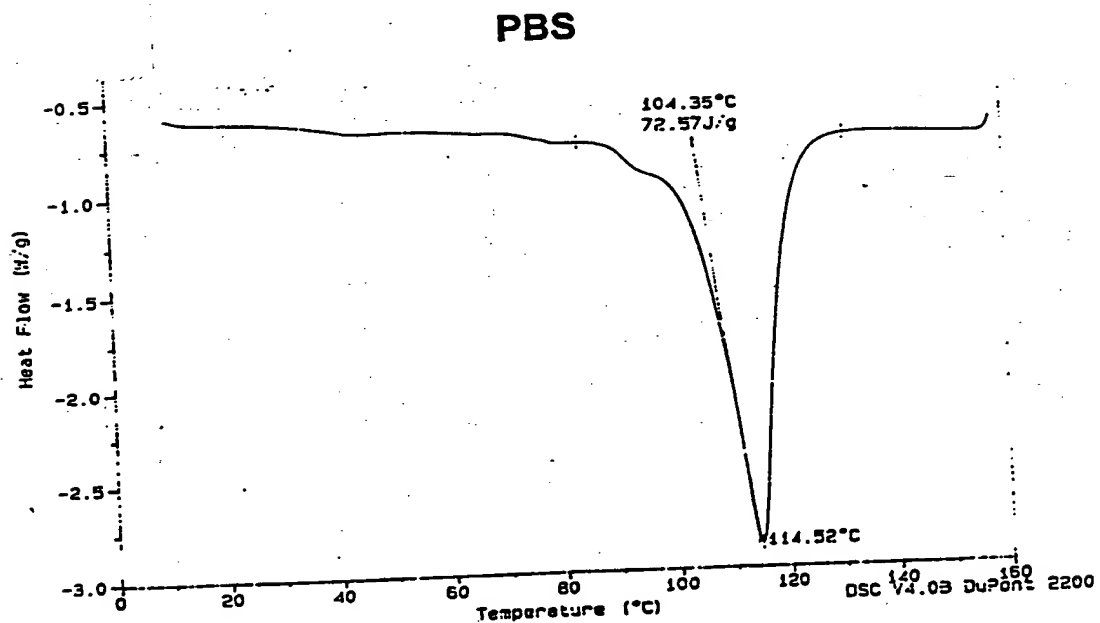


Figure 8 Melt Rheology at 180°C for PBS and HEMA Grafted PBS (Bionolle® 1020)

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Figur 9 DSC Thermogram for PBS and PEGMA Grafted PBS 1040



PEGMA Grafted PBS 1040

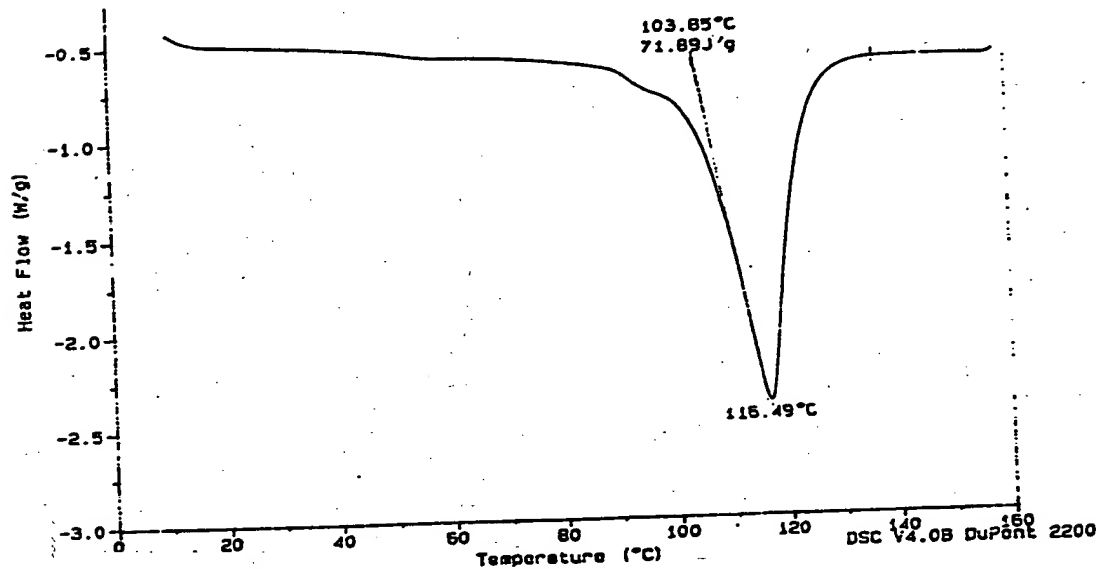
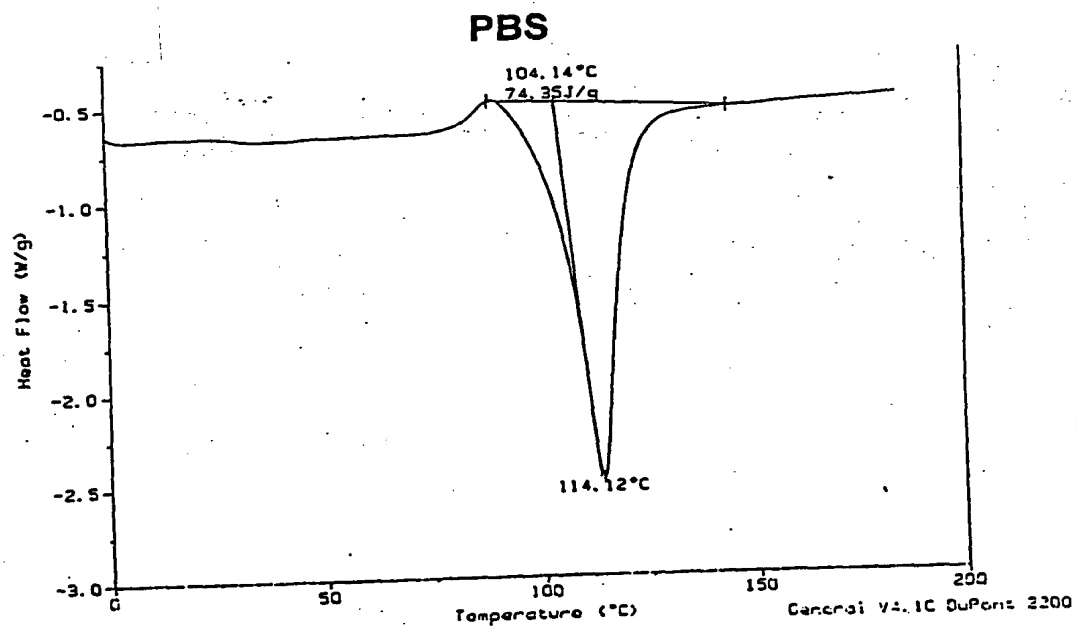
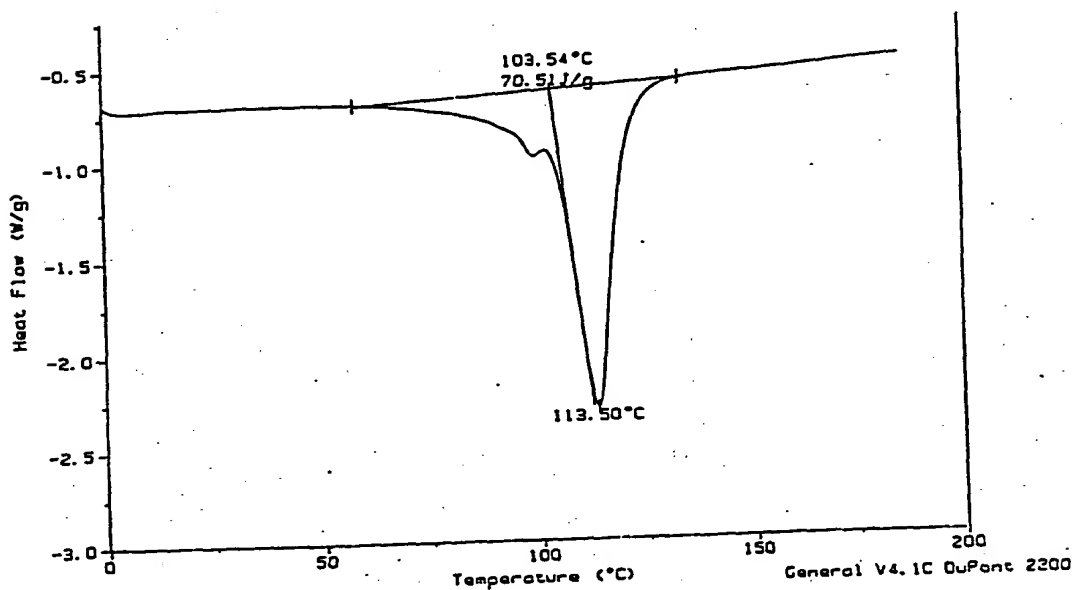


Figure 10 DSC Thermogram for PBS and HEMA Grafted PBS 1020



HEMA Grafted PBS 1020



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00622T" 220E5460

Figure 11



10 µm

00622T" 40ES460

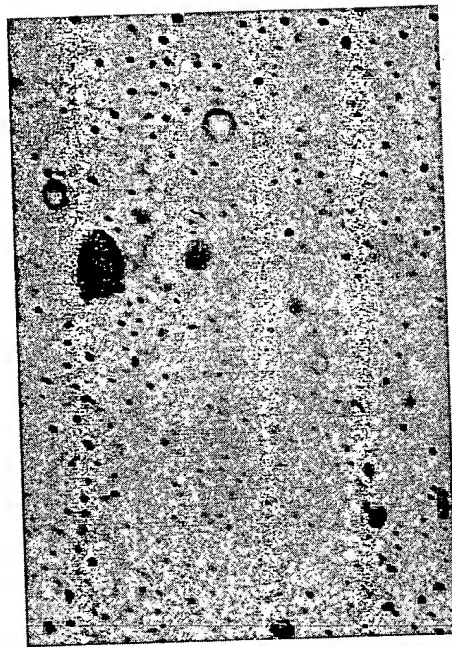
Figure 12



— 10 μ m

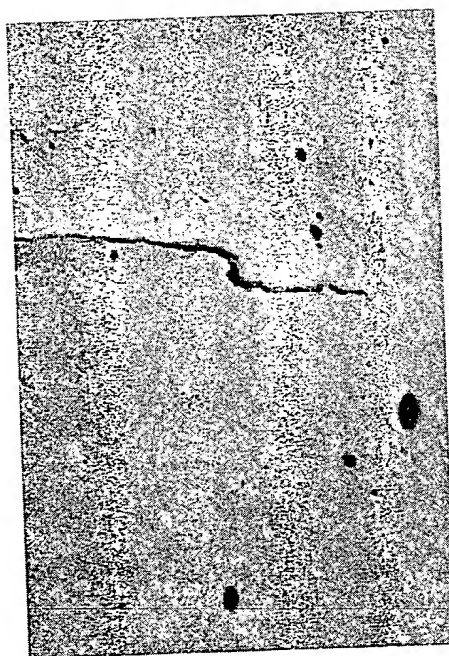
00622T" 440ES460

Figure 13



00622T" 22055260

Figure 14



— 10 μm

Figure 15
 T_m of PEO Phase of Reactive Blends

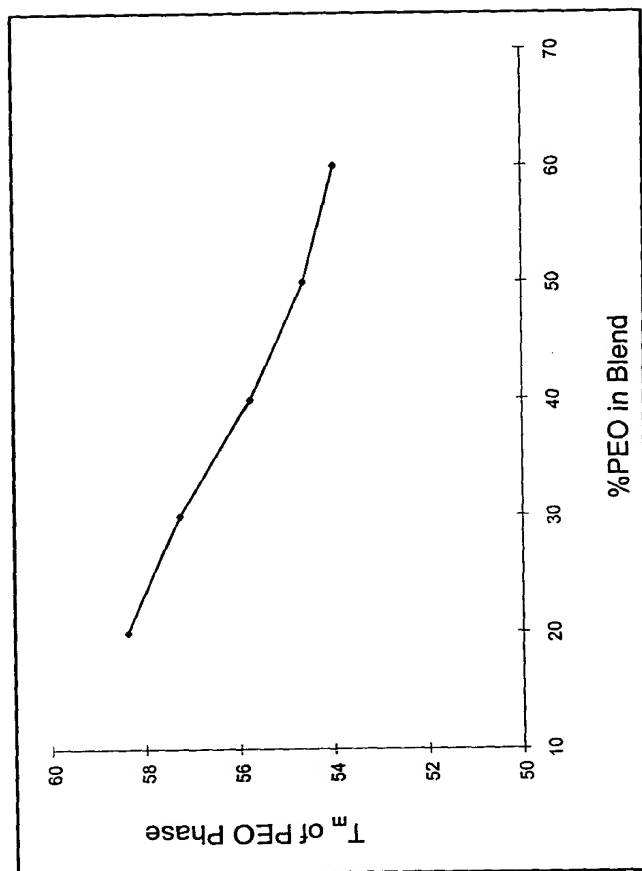


Figure 16

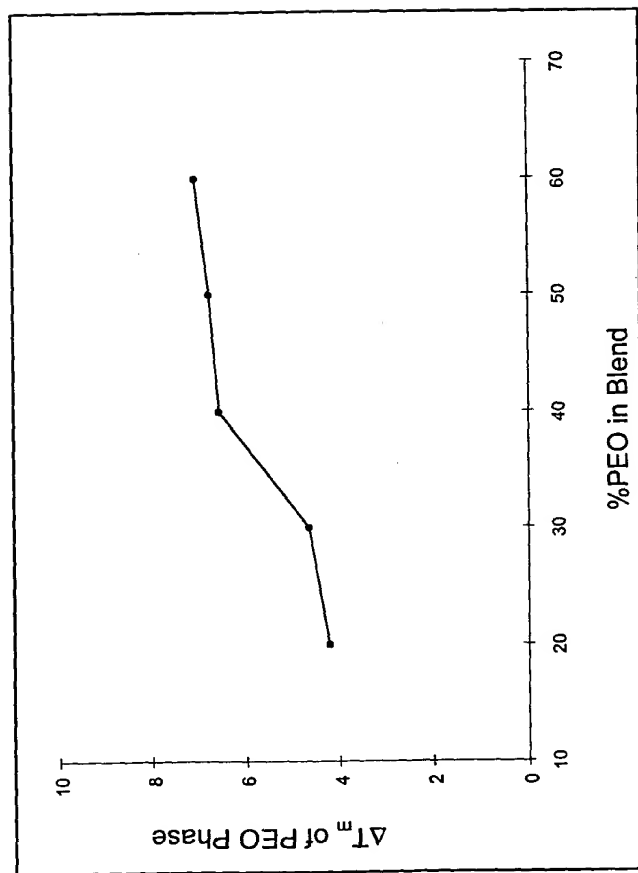
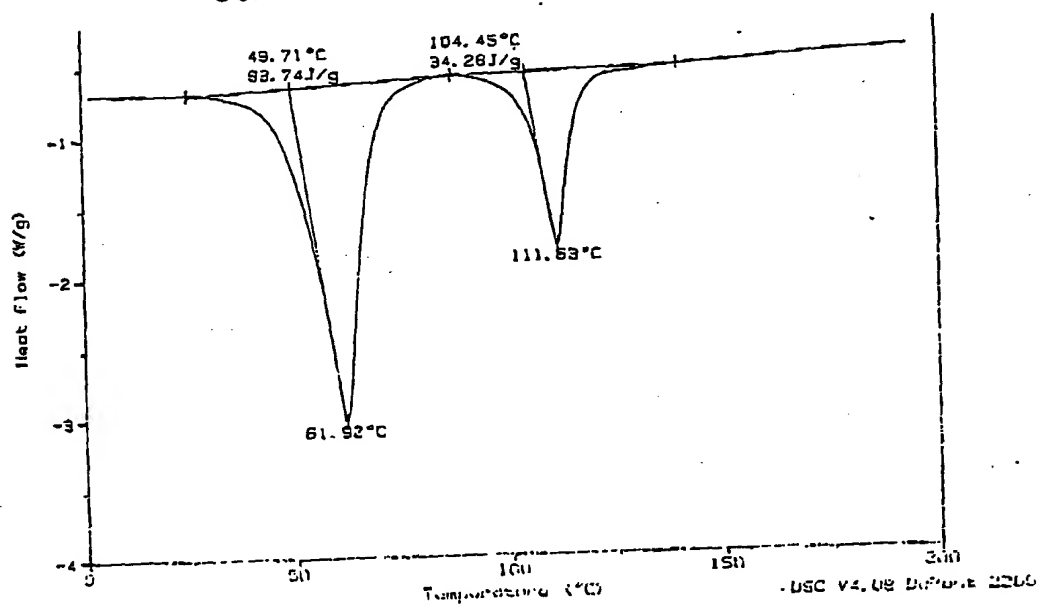
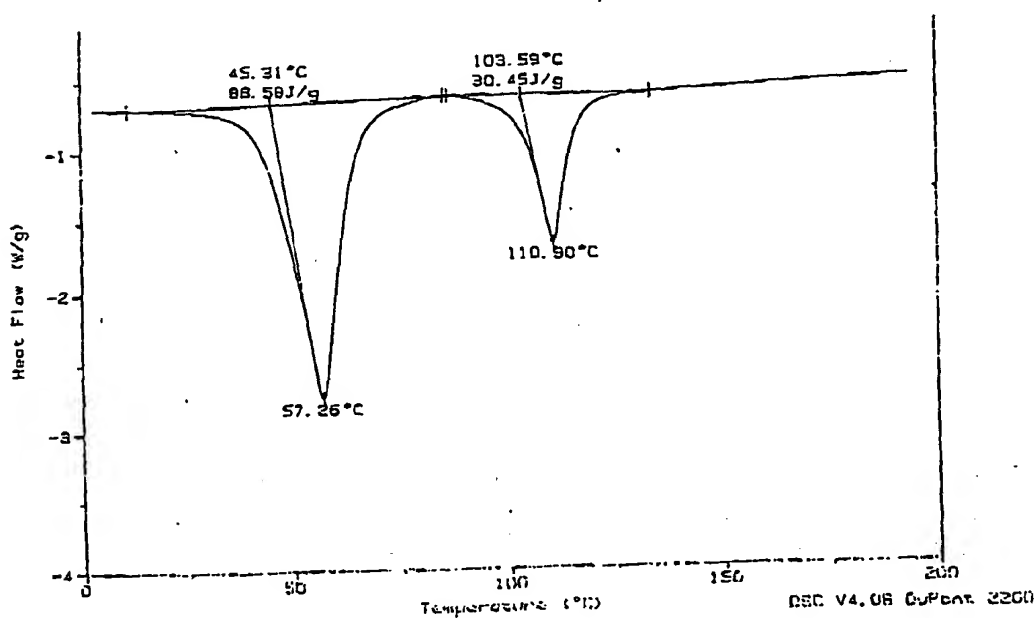
 $\Delta T_m = T_m$ (PEO Phase of Physical Blends) - T_m (Reactive Blends)

Figure 17 DSC Thermograms for PBS/PEO Physical and Reactive Blends

30/70 PBS/PEO Physical Blend



30/70 PBS/PEO Reactive Blend



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Figure 18 Melt Rheology at 195°C for PBS/PEO Physical and Reactive Blends

